

FALL 2004 RESOURCE ASSESSMENT TRAWL SURVEY

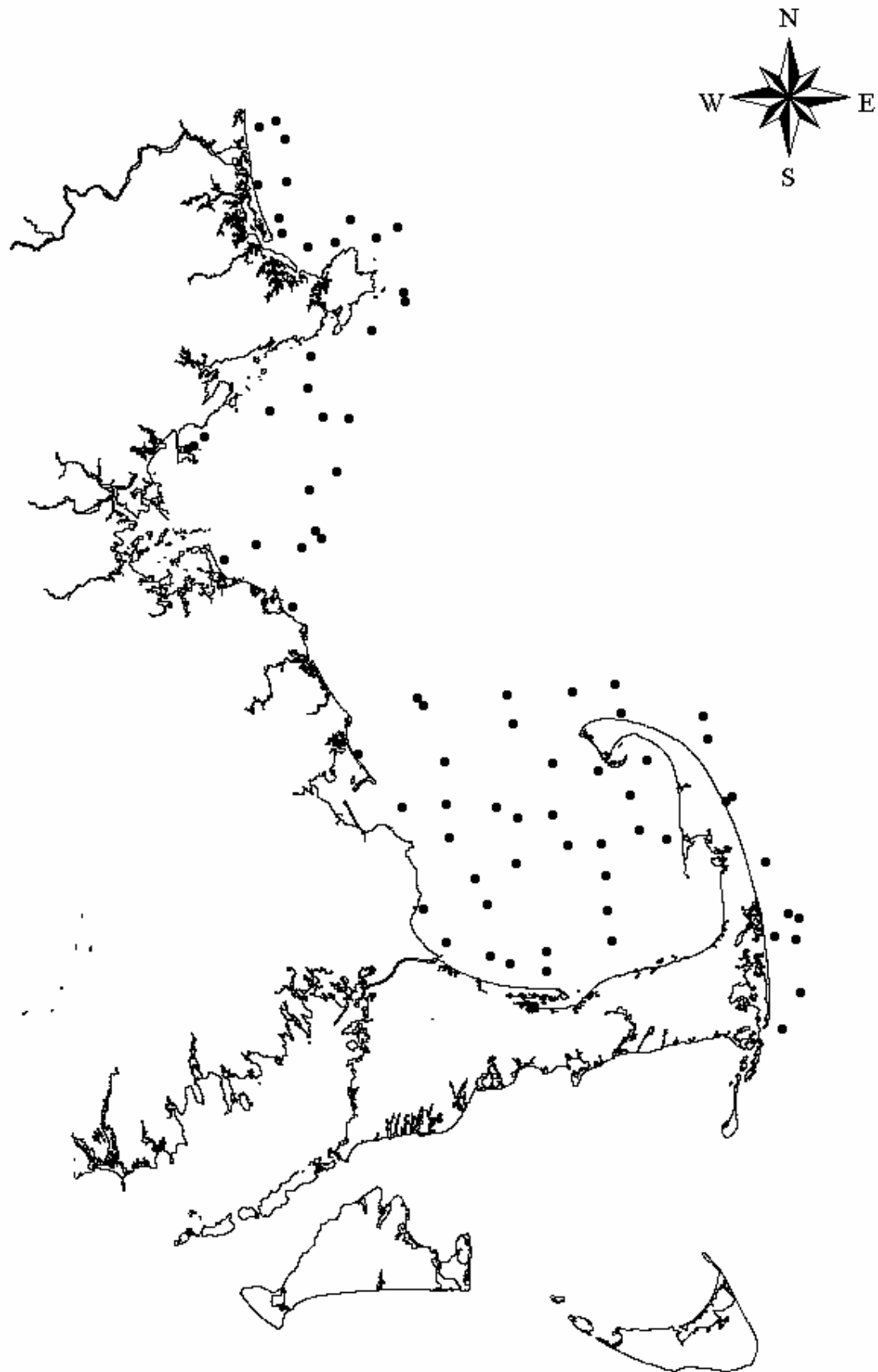
The *Marine Fisheries* trawl survey provides information for many uses including environmental reviews and groundfish assessments. It is critical to the integrity of the survey that we maintain access to sampling sites. Because of admirable cooperation during the last several years from fixed gear fishermen, we have accomplished our sampling goals and avoided costly gear conflicts.

We ask that all fixed gear fishermen review the attached table of station location details and the accompanying figure, which plots the general locations of all selected sample sites. We request that all fixed gear be kept clear of station locations (1.5 n. mi. diameter circle - center point reported in table) for the indicated periods. We will make every attempt to complete stations during the assigned period to minimize inconvenience to fixed gear fishermen. Fishermen can contact the R/V Gloria Michelle on VHF channels 13 or 16 to determine the updated daily schedule. In the event of a delay due to weather, we will resume our schedule as soon as working conditions are safe.

As reported in the past, the DMF Director is prepared to attach restrictions to permit renewals (under 322 CMR 7.01 (7)) mandating that fixed gear not be set on designated trawl survey sites for the dates stipulated. It remains our hope that this action will be unnecessary.

Personnel aboard the NOAA R/V Gloria Michelle (65' western rigged steel stern trawler with a blue hull and white deckhouse) will carefully check each site for marked gear by cruising along a selected tow path at least once before the net is set. Undertaken at 2.5 knots, twenty-minute tows cover approximately 0.8 n mi., generally along a depth contour. We encourage communicating helpful information to the R/V officers (via channels 13 or 16).

Mass. Division of Marine Fisheries 2004 Autumn Trawl Survey Stations



Massachusetts Division of Marine Fisheries - 2004 Autumn Trawl Survey Station Locations
North and East of Cape Cod

<u>General Location</u>	<u>General Location</u>	<u>Depth</u>	<u>Range of Dates</u>	<u>Latitude</u>	<u>Center of Tow Area Longitude</u>	<u>Loran</u>
East of Cape Cod	Peaked Hill Bar	0-30'	14-16 Sept.	42°05.3'	70°10.5'	13803.5/44113.0
	E of Highlands	0-30'	14-16 Sept.	41°58.4'	69°59.7'	13772.0/44057.0
	E of Nauset Harbor	31-60'	14-16 Sept.	41°47.8'	69°55.0'	13795.0/43987.5
	E of Chatham Harbor	31-60'	14-16 Sept.	41°40.6'	69°54.4'	13825.0/43942.5
	E of Highlands	31-60'	14-16 Sept.	41°58.7'	69°59.1'	13767.5/44057.5
	E of Nauset Beach	61-90'	14-16 Sept.	41°43.5'	69°52.4'	13800.0/43958.0
	E of Nauset Beach Light	61-90'	14-16 Sept.	41°53.6'	69°55.7'	13772.0/44022.5
	E of Nauset Harbor	91-120'	14-16 Sept.	41°49.6'	69°53.5'	13778.5/43995.5
	E of Nauset Harbor	91-120'	14-16 Sept.	41°47.6'	69°52.8'	13783.5/43982.5
	E of Highland Light	91-120'	14-16 Sept.	42°03.2'	70°01.5'	13760.0/44087.5
	N of Peaked Hill Bar	121-180'	14-16 Sept.	42°07.6'	70°11.0'	13795.0/44127.5
	E of Nauset Harbor	121-180'	14-16 Sept.	41°49.2'	69°52.4'	13774.0/43992.0
	NE of Highland Light	121-180'	14-16 Sept.	42°05.0'	70°01.9'	13753.5/44098.0
Cape Cod Bay	Duxbury Beach	0-30'	7-15 Sept.	42°02.4'	70°37.6'	13982.0/44141.0
	Ellisville Harbor	0-30'	7-15 Sept.	41°50.4'	70°31.2'	13997.5/44057.5
	Sagamore Beach	31-60'	7-15 Sept.	41°47.8'	70°28.9'	13995.0/44037.5
	N of Sandy Neck	31-60'	7-15 Sept.	41°47.0'	70°18.5'	13936.5/44017.0
	N of Sandy Neck	31-60'	7-15 Sept.	41°45.4'	70°18.6'	13944.0/44007.5
	N of Sandy Neck	31-60'	7-15 Sept.	41°46.0'	70°22.4'	13963.5/44017.0
	E of Indian Hill	61-90'	7-15 Sept.	41°58.5'	70°28.7'	13968.0/44072.5
	E of Center Hill Point	61-90'	7-15 Sept.	41°50.7'	70°24.6'	13956.5/44049.0
	N of Scorton Neck	61-90'	7-15 Sept.	41°46.6'	70°24.3'	13972.5/44023.5
	NE of Rocky Point	61-90'	7-15 Sept.	41°58.3'	70°33.3'	13974.5/44109.0
	E of Brant Rock	91-120'	7-15 Sept.	42°06.7'	70°31.6'	13925.0/44156.0
	E of Manomet Point	91-120'	7-15 Sept.	41°55.9'	70°28.5'	13955.5/44087.0
	E of Indian Hill	91-120'	7-15 Sept.	41°53.8'	70°21.5'	13923.5/44062.0
	E of Indian Hill	91-120'	7-15 Sept.	41°52.7'	70°25.9'	13954.5/44063.5
	E of Brant Rock	121-180'	7-15 Sept.	42°06.1'	70°30.9'	13923.0/44151.5
	E of Gurnet Point	121-180'	7-15 Sept.	42°01.7'	70°28.8'	13931.0/44122.0
	E of Manomet Point	121-180'	7-15 Sept.	41°57.3'	70°21.3'	13906.0/44083.5
	E of Manomet Point	121-180'	7-15 Sept.	41°58.2'	70°23.5'	13914.5/44092.5
	W of Great Island	0-30'	7-15 Sept.	41°55.5'	70°05.9'	13823.0/44049.0
	SW of Billingsgate Shoal	31-60'	7-15 Sept.	41°50.0'	70°12.2'	13885.5/44026.0
	SW of Billingsgate Shoal	31-60'	7-15 Sept.	41°47.7'	70°11.7'	13893.0/44011.0
	E of Long Point	61-90'	7-15 Sept.	42°01.6'	70°07.9'	13806.0/44087.5
	W of Griffin Island	61-90'	7-15 Sept.	41°56.3'	70°08.8'	13836.5/44057.0
	W of Billingsgate Shoal	61-90'	7-15 Sept.	41°52.8'	70°12.3'	13873.5/44042.5
	W of Great Island	91-120'	7-15 Sept.	41°55.2'	70°12.8'	13865.0/44057.5
	W of Great Island	91-120'	7-15 Sept.	41°55.1'	70°16.2'	13885.5/44062.5
	S of Long Point	91-120'	7-15 Sept.	41°58.9'	70°09.6'	13828.5/44075.0
	SW of Long Point	121-180'	7-15 Sept.	42°00.9'	70°12.9'	13838.5/44091.5
	SW of Race Point	121-180'	7-15 Sept.	41°57.5'	70°17.7'	13883.5/44079.0
	SW of Race Point	121-180'	7-15 Sept.	42°01.5'	70°17.6'	13863.5/44102.0
	NW of Race Point	180+	7-15 Sept.	42°06.8'	70°22.3'	13867.0/44141.5
	W of Race Point	180+	7-15 Sept.	42°04.6'	70°21.7'	13874.0/44127.5
	N of Race Point	180+	7-15 Sept.	42°07.0'	70°15.5'	13825.0/44127.5
Cape Ann and North	Plum Island	0-30'	9-13 Sept.	42°46.4'	70°47.5'	13824.0/44406.5
	Plum Island	0-30'	9-13 Sept.	42°42.6'	70°45.0'	13828.0/44381.0
	Ipswich Bay	31-60'	9-13 Sept.	42°41.6'	70°42.3'	13816.0/44371.0
	Plum Island	31-60'	9-13 Sept.	42°43.8'	70°45.3'	13823.5/44388.0
	Plum Island	61-90'	9-13 Sept.	42°46.6'	70°44.5'	13803.5/44401.5
	W of Halibut Point	61-90'	9-13 Sept.	42°41.9'	70°39.4'	13796.0/44366.5
	E of Salisbury Beach	61-90'	9-13 Sept.	42°50.9'	70°47.3'	13798.0/44429.0
	E of Salisbury Beach	91-120'	9-13 Sept.	42°49.9'	70°44.7'	13787.0/44418.5
	E of Salisbury Beach	91-120'	9-13 Sept.	42°51.3'	70°45.6'	13785.0/44427.0
	N of Halibut Point	121-180'	9-13 Sept.	42°43.6'	70°37.8'	13776.5/44372.5
	NE of Halibut Point	121-180'	9-13 Sept.	42°42.2'	70°35.3'	13767.5/44360.5
	E of Eastern Point	121-180'	9-13 Sept.	42°35.1'	70°35.8'	13808.5/44324.0
	E of Thacher Island	121-180'	9-13 Sept.	42°38.0'	70°32.6'	13773.0/44333.5
	NE of Halibut Point	>180'	9-13 Sept.	42°43.0'	70°33.1'	13749.0/44360.5
	SE of Thacher Island	>180'	9-13 Sept.	42°37.3'	70°32.4'	13775.0/44329.5
Massachusetts Bay	Nahant Bay	0-30'	9-13 Sept.	42°26.0'	70°55.1'	13974.5/44309.5
	Nahant Bay	31-60'	9-13 Sept.	42°26.2'	70°54.5'	13974.0/44310.0
	E of Cowen Rocks	31-60'	9-13 Sept.	42°13.8'	70°44.2'	13970.0/44219.5
	Strawberry Ledge	31-60'	9-13 Sept.	42°17.5'	70°51.4'	13996.5/44254.5
	Nahant Bay	61-90'	9-13 Sept.	42°26.9'	70°53.3'	13963.0/44311.0
	E of Harding Ledge	61-90'	9-13 Sept.	42°18.7'	70°48.0'	13969.5/44255.0
	Middle Ground	91-120'	9-13 Sept.	42°33.1'	70°42.2'	13860.0/44324.5
	NE of Jason Shoal	91-120'	9-13 Sept.	42°18.4'	70°43.3'	13941.0/44244.5
	S of Halfway Rock	91-120'	9-13 Sept.	42°28.9'	70°46.5'	13909.0/44309.5
	S of Sat. Night ledge	121-180'	9-13 Sept.	42°30.6'	70°42.5'	13874.5/44311.0
	S of Sat. Night ledge	121-180'	9-13 Sept.	42°28.4'	70°40.9'	13875.0/44296.5
	E of Diffusers	121-180'	9-13 Sept.	42°22.8'	70°42.5'	13915.0/44268.0
	NE of Jason Shoal	121-180'	9-13 Sept.	42°19.1'	70°41.2'	13924.0/44245.0
	NE of Jason Shoal	121-180'	9-13 Sept.	42°19.7'	70°41.9'	13926.0/44249.5
	E of Diffusers	>180'	9-13 Sept.	42°24.1'	70°39.6'	13889.5/44270.0
	SE of Sat. Night Ledge	>180'	9-13 Sept.	42°28.3'	70°38.3'	13859.5/44291.0